

CLAIM AMENDMENTS

1. (Currently Amended) A system comprising:
a well; and
a carousel of tools sealed ~~within~~ to the well to automatically and selectively deploy the tools in the well, wherein at least one of the tools is adapted to deploy sensors at a predetermined depth to perform an intervention in the well.

2. (Previously Presented) The system of claim 1, wherein said at least one of the tools is adapted to measure an environmental property of the well.

3. (Original) The system of claim 2, wherein the property comprises a composition of well fluid.

4. (Original) The system of claim 2, wherein the property comprises a temperature.

5. (Original) The system of claim 2, wherein the property comprises a pressure.

6. (Original) The system of claim 1, wherein at least one of the tools is adapted to take corrective action in the well.

7. (Original) The system of claim 6, wherein at least one of the tools is adapted to set a plug in the well.

8. (Original) The system of claim 1, wherein at least one of the tools is adapted to take a measurement of a property of the well at a predetermined depth.

9. (Cancelled)

10. (Original) A method comprising:
halting the flow of fluid in a well;
deploying a tool from within the well while the fluid is halted;
allowing the tool to free fall in the well while the fluid is halted; and
resuming the flow to retrieve the tool.

11. (Original) The method of claim 10, further comprising:
introducing a delay to allow the tool to reach a given depth.

12. (Original) The method of claim 10, further comprising:
using the tool to measure a property of the well at a predetermined depth.

13. (Currently Amended) A method comprising:
injecting sensors into a fluid of a well;
halting flow of the fluid to allow the sensors to descend into the well;
using the sensors to measure at least one environmental property of the well; and
retrieving data from the sensors indicating the measurements.

14. (Original) The method of claim 13, wherein the act of retrieving the data comprises:
collecting the sensors; and
plugging the sensors into equipment to retrieve the data.

15. (Currently Amended) The method of claim 13, wherein the act of retrieving the data comprises:
communicating with the sensors ~~as the sensors are flowing~~ in the well.

16. (Original) The method of claim 13, wherein the act of injecting the sensors comprises:
introducing the sensors into a chemical injection port of the well.

17. (Cancelled)

18. (Currently Amended) A system comprising:

a well; and

a robot permanently sealed in the well to selectively perform an intervention.

19. (Original) The system of claim 18, wherein the robot comprises a tractor.

20. (Original) The system of claim 18, wherein the robot is tethered to control electronics.

21. (Original) The system of claim 20, wherein the electronics are located inside the well.

22. (Original) The system of claim 20, wherein the electronics are located on a host platform.

23. (Original) The system of claim 18, wherein the robot is adapted to release a buoyant member to indicate that the robot is lodged in the well.

24. (Original) The system of claim 18, wherein the robot is adapted to collapse to dislodge itself from a passageway in the well.

25. (New) The method of claim 10, further comprising:
using the tool to perform a test in the well.

26. (New) The method of claim 10, further comprising:
using the tool to take a corrective action in the well.

27. (New) The method of claim 10, further comprising:
triggering the halting in response to a periodic timer.

28. (New) The method of claim 10, further comprising:
triggering the halting in response to a command.

29. (New) The method of claim 10, further comprising:
triggering the halting in response to a previous measurement indicating intervention is
needed in the well.

30. (New) A system comprising:
a well;
control electronics located on a host platform; and
a robot sealed in the well to selectively perform an intervention, wherein the robot is
tethered to the control electronics.

31. (New) The system of claim 30, wherein the robot comprises a tractor.

32. (New) The system of claim 30, wherein the robot is adapted to release a buoyant
member to indicate that the robot is lodged in the well.

33. (New) The system of claim 30, wherein the robot is adapted to collapse to
dislodge itself from a passageway in the well.

34. (New) A system comprising:
a well; and
a robot sealed in the well to selectively perform an intervention, the robot adapted to
collapse to dislodge itself from a passageway in the well.

35. (New) The system of claim 34, wherein the robot comprises a tractor.

36. (New) The system of claim 34, wherein the robot is tethered to control electronics.

37. (New) The system of claim 36, wherein the electronics are located inside the well.

38. (New) The system of claim 36, wherein the electronics are located on a host platform.

39. (New) The system of claim 34, wherein the robot is adapted to release a buoyant member to indicate that the robot is lodged in the well.

40. (New) A method comprising:
injecting sensors into a fluid of a well, comprising introducing the sensors into a chemical injection port of the well;
using the sensors to measure at least one environmental property of the well; and
retrieving data from the sensors indicating the measurements.

41. (New) The method of claim 40, wherein the act of retrieving the data comprises:
collecting the sensors; and
plugging the sensors into equipment to retrieve the data.

42. (New) The method of claim 40, wherein the act of retrieving the data comprises:
communicating with the sensors in the well.

43. (New) The method of claim 40, further comprising:
halting the flow of the fluid to allow the sensors to descend into the well.